

Grant Street Dam Rehabilitation

Client: City of Lock Haven

Clinton Co., PA

Year: 2020 Cost: \$450,000



The City of Lock Haven retained Gwin, Dobson & Foreman to design a rehabilitation program for the Grant Street Dam, a 720-ft. low dam across the West Branch of the Susquehanna River. The backwater pool is a community resource for boating, water recreation, fishing, and community concerts.

Originally constructed in 1936 as an Ambursen-type concrete slab and buttress dam, the structure was completely rebuilt by the state in 1962. The last rehabilitation work was done in 1993 during building of the Lock Haven flood protection levee project. Since then, the dam breached in several locations and had areas of exposed rebar and concrete deterioration. The dam has 72 individual piers that support horizontal concrete slabs and an overflow crest.

The project included provisions for a temporary dam opening to lower the pool level and control river flow, breach opening repairs with new face slabs, crest cap concrete repairs and joint sealing and concrete surface repairs. GD&F secured all project approvals from the PADEP Division of Dam Safety, US Army Corps of Engineers, PA Fish & Boat Commission and County Conservation District. A hydraulic analysis computed a waterway opening for seasonal river flow that minimized the concrete slabs removed.



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